

## west virginia department of environmental protection

Division of Air Quality 601 57<sup>th</sup> Street, SE Charleston, WV 25304-2345

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Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

## **MEMORANDUM**

To:

File

From:

William T. Rothwell II

Date:

March 31, 2017

Subject:

SWN Production Company, LLC - Randy McDowell B Well Pad - Marshall

County, WV

ID #:

051-00240

APP #:

PD17-003

## **WELL PAD INFORMATION:**

The above subject well pad includes six well heads, seven heater treaters, low pressure separators, and four 400 barrel produced water storage tanks along with produced water truck loading. There are no flares, compressor engines, condensate tanks or condensate truck loading associated with this facility and source aggregation to determine major source and PSD is not applicable to this site due to the fact that the subject well pad is not considered to be on contiguous or adjacent to other Antero properties in the area.

The applicant is not subject to 45CSR6, 45CSR10, 45CSR13, 40CFR63 Subpart ZZZZ, 40CFR60 Subpart JJJJ, 40CFR60 Subpart OOOO, 40CFR60 Subpart Kb, 45CSR14, 45CSR19, or 45CSR30.

The uncontrolled emissions were calculated by SWN using ProMax 3.2 and EPA AP-42 Emission Factors and were reviewed by the writer for accuracy. The emissions from the produced water emissions (water flash, working and breathing emissions), produced water truck loading, and heater treaters combined are as follows:

Pollutant	<u>LB/HR</u>	<u>TPY</u>
PM	0.04	0.20
$PM_{10}$	0.20	0.20
VOCs	2.21	9.67
CO	0.50	2.17
NOx	0.59	2.59
HAPs	0.16	0.69

## **RECOMMENDATION:**

The emission rates of regulated pollutants are below the emission limits of six (6) lb/hr and ten (10) TPY; 144 pounds per calendar day; 2 lb/hr or 5 TPY of HAPs set forth set forth in 45CSR13. The well pad will not trigger a substantive requirement of any State or Federal air quality regulation. Therefore, a permit is not required by this Division for the operation of the above mentioned well pad.

3/31/2017

William T. Rothwell II, P.E.

Engineer

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